



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

September 23, 2003

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.in.gov/idem](http://www.in.gov/idem)

TO: Interested Parties / Applicant

RE: Rumpke of Indiana, LLC / MSOP 071-16792-05226

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot 9/16/03



*Frank O'Bannon*  
Governor

*Lori F. Kaplan*  
Commissioner

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## **NEW SOURCE CONSTRUCTION PERMIT and MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY**

### **Rumpke of Indiana, LLC (Portable Source)**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 071-16792-05226	
Issued by: Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 23, 2003  Expiration Date: September 23, 2008

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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a portable tire shredder and its supporting diesel internal combustion engine.

Authorized Individual: William J. Rumpke, Sr., Co-President  
Initial Source Address: 3512 South US Highway 31, Crothersville, Indiana 47229  
Mailing Address: 10795 Hughes Road, Cincinnati, Ohio 45251-4598  
General Source Phone: 513-851-0122 ext. 3162  
SIC Code: 4212  
Initial County Location: Jackson  
Source Location Status: Attainment for all criteria pollutants  
Source Status: Minor Source Operating Permit  
Minor Source, under PSD and Emission Offset Rules;  
Minor Source, Section 112 of the Clean Air Act

### A.2 Emissions Units and Pollution Control Equipment Summary

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This portable source is approved to construct and operate the following emissions units and pollution control devices:

- (a) one (1) portable tire shredder, with a maximum capacity of shredding 12 tons of rubber tires per hour, exhausting to the atmosphere; and
- (b) one (1) diesel-fired internal combustion engine, with a maximum heat input capacity of 385 horsepower (HP), exhausting through one (1) stack (IC Engine Stack).

## **SECTION B GENERAL CONDITIONS**

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

### **B.1 Permit No Defense [IC 13]**

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This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

### **B.2 Definitions**

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

### **B.3 Effective Date of the Permit [IC13-15-5-3]**

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Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

### **B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

### **B.5 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]**

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This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

### **B.6 Modification to Permit [326 IAC 2]**

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Notwithstanding the Section B condition entitled "Minor Source Operating Permit", all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

### **B.7 Minor Source Operating Permit [326 IAC 2-6.1]**

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This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section.
  - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
  - (2) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2-6.1-6 and an Operation Permit Validation Letter is issued.

- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.
- (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).

**B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

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- (a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:  
  
Compliance Branch, Office of Air Quality  
Indiana Department of Environmental Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015
- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

**B.9 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each emissions unit:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

The PMP extension notification does not require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMP’s shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMP whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.10 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]**

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- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

Any such application shall be certified by an “authorized individual” as defined by 326 IAC 2-1.1-1.

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

**B.11 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-30-3-1]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee’s right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.12 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]**

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Pursuant to [326 IAC 2-6.1-6(d)(3)] :

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

**B.13 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source
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- C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]  
Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.
- C.2 Permit Revocation [326 IAC 2-1.1-9]  
Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:
- (a) Violation of any conditions of this permit.
  - (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
  - (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
  - (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
  - (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.
- C.3 Opacity [326 IAC 5-1]  
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- C.4 Fugitive Dust Emissions [326 IAC 6-4]  
The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).
- C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]  
The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

## Testing Requirements

### C.6 Performance Testing [326 IAC 3-6]

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- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

## Compliance Requirements [326 IAC 2-1.1-11]

### C.7 Compliance Requirements [326 IAC 2-1.1-11]

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

## Compliance Monitoring Requirements

### C.8 Compliance Monitoring [326 IAC 2-1.1-11]

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Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

### C.9 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

**C.10 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected emissions unit while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

**Record Keeping and Reporting Requirements**

**C.11 Malfunctions Report [326 IAC 1-6-2]**

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Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.12 Emission Statement [326 IAC 2-6]

- (a) The Permittee located or relocated in Clark, Elkhart, Floyd, Lake, Marion, Porter, St. Joseph or Vanderburgh counties as specified in 326 IAC 2-6-1 shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This annual emission statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:  
  
Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015
- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

The submittal by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1.

C.13 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

C.14 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (c) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

### **Portable Source Requirement**

#### **C.15 Relocation of Portable Sources [326 IAC 2-14-4]**

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- (a) This permit is approved for operation in all areas in Indiana, except in Lake County.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
  - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
  - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

The notification by the Permittee does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (c) A “Relocation Site Approval” letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one of the following:
  - (1) Madison County - (Anderson Office of Air Management)
  - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
  - (3) City of Gary - (Gary Department of Environmental Affairs)
  - (4) City of Hammond - (Hammond Department of Environmental Management)
  - (5) Marion County - (Indianapolis Office of Environmental Services)
  - (6) St. Joseph County - (St. Joseph County Health Department)
  - (7) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent “Relocation Site Approval” letter specifying the current location of the portable plant.

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

- (a) one (1) portable tire shredder, with a maximum capacity of shredding 12 tons of rubber tires per hour, exhausting to the atmosphere; and
- (b) one (1) diesel-fired internal combustion engine, with a maximum heat input capacity of 385 horsepower (HP), exhausting through one (1) stack (IC Engine Stack).

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

## Emission Limitations and Standards

### D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the tire shredder shall not exceed 22.0 pounds per hour when operating at a process weight rate of 24,000 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour;  
and

P = process weight rate in tons per hour

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH**

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<b>Company Name:</b>	<b>Rumpke of Indiana, LLC</b>
<b>Address:</b>	<b>3512 South US Highway 31</b>
<b>City:</b>	<b>Crothersville, Indiana 47229</b>
<b>Phone #:</b>	<b>513-851-0122</b>
<b>MSOP #:</b>	<b>071-16792-05226</b>

I hereby certify that this source is ☒ still in operation.  
☐ no longer in operation.

I hereby certify that this source is ☒ in compliance with the requirements of MSOP **071-16792-05226**.  
☐ not in compliance with the requirements of MSOP **071-16792-05226**.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

### **MALFUNCTION REPORT**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
FAX NUMBER - 317 233-5967**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6  
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?\_\_\_\_\_, 25 TONS/YEAR SULFUR DIOXIDE ?\_\_\_\_\_, 25 TONS/YEAR NITROGEN OXIDES?\_\_\_\_\_, 25 TONS/YEAR VOC ?\_\_\_\_\_, 25 TONS/YEAR HYDROGEN SULFIDE ?\_\_\_\_\_, 25 TONS/YEAR TOTAL REDUCED SULFUR ?\_\_\_\_\_, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?\_\_\_\_\_, 25 TONS/YEAR FLUORIDES ?\_\_\_\_\_, 100TONS/YEAR CARBON MONOXIDE ?\_\_\_\_\_, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?\_\_\_\_\_, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?\_\_\_\_\_. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION \_\_\_\_\_.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC \_\_\_\_\_ OR, PERMIT CONDITION # \_\_\_\_\_ AND/OR PERMIT LIMIT OF \_\_\_\_\_

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ?    Y        N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ?    Y        N

COMPANY: Rumpke of Indiana, LLC PHONE NO. (513) 851-0122 ext. 3162 \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) Crothersville, Jackson County (Portable) \_\_\_\_\_  
PERMIT NO. 071-16792 AFS PLANT ID: 071-05226 AFS POINT ID: \_\_\_\_\_ INSP: Vaughn Ison \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND  
REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: \_\_\_\_\_

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_  
INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

**Please note - This form should only be used to report malfunctions  
applicable to Rule 326 IAC 1-6 and to qualify for  
the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

**\*Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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Mail to: Permit Administration & Development Section  
Office Of Air Quality  
100 North Senate Avenue  
P. O. Box 6015  
Indianapolis, Indiana 46206-6015

Rumpke of Indiana, LLC  
10795 Hughes Road  
Cincinnati, Ohio 45251-4598

#### Affidavit of Construction

I, \_\_\_\_\_, being duly sworn upon my oath, depose and say:  
(Name of the Authorized Representative)

1. I live in \_\_\_\_\_ County, Ohio and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of \_\_\_\_\_ for \_\_\_\_\_.  
(Title) (Company Name)
3. By virtue of my position with \_\_\_\_\_, I have personal  
(Company Name)  
knowledge of the representations contained in this affidavit and am authorized to make  
these representations on behalf of \_\_\_\_\_.  
(Company Name)
4. I hereby certify that Rumpke of Indiana, LLC, 3512 South US Highway 31, Crothersville, Indiana, 47229, completed construction of the diesel internal combustion engine on \_\_\_\_\_ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on February 10, 2003 and as permitted pursuant to **Construction Permit No. CP-071-16792, Plant ID No. 071-05226** issued on \_\_\_\_\_.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

STATE OF OHIO)  
)SS

COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to me, a notary public in and for \_\_\_\_\_ County and State of Ohio on  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

My Commission expires: \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name (typed or printed)

## **Indiana Department of Environmental Management Office of Air Quality**

### **Addendum to the Technical Support Document for a Minor Source Operating Permit**

Source Name: Rumpke of Indiana, LLC  
Source Location: 3512 South US Highway 31, Crothersville, IN 47229  
(Uniontown Tire Recycling Facility)  
County: Jackson  
SIC Code: 4212  
Operation Permit No.: 071-16792-05226  
Permit Reviewer: Trish Earls/EVP

On April 15, 2003, the Office of Air Quality (OAQ) had a notice published in The Tribune, Seymour, Indiana, stating that Rumpke of Indiana, LLC had applied for a permit to operate a portable tire shredder and its supporting diesel internal combustion engine. The notice also stated that OAQ proposed to issue a permit for this installation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On April 21, 2003, Hannah Wheatley of The Jackson County Banner submitted comments on the proposed permit. The comment and the response is below:

#### **Comment**

She stated that she contacted the Brownstown Public Library on April 16, 2003, so that she could look at a copy of the application, which was supposed to be there. The library informed her that they did not have it and never received it.

She also wanted to know how long the source has been operating the machinery without the proper permit and why Rumpke is filing for them now.

#### **Response**

Rumpke of Indiana, LLC stated that they initially submitted the complete permit application packet to the Jackson County Public Library, Crothersville Branch, which is the nearest library to the source within Jackson County. However, IDEM, OAQ, sent the draft permit to the Brownstown Public Library which is one of the libraries in Jackson County that is typically used by the OAQ. Since Rumpke of Indiana, LLC submitted the application to the closest local library to the source, as required, the OAQ subsequently sent copies of the permit application and the draft permit to both the Jackson County Public Library, Crothersville Branch, and the Brownstown Public Library for the public to review.

The tire shredder and its supporting internal combustion (IC) engine began operation at the site on January 16, 2003, based on the information provided by the source in the permit application. The emissions from the tire shredder itself are at exempt levels, therefore, this unit did not require a permit and is listed as a new emission unit in the Technical Support Document. However, the emissions from the IC engine are above the thresholds requiring a permit, therefore, this unit was referred to IDEM's Office of Enforcement for being constructed and operated without a permit. IDEM is taking appropriate actions on this matter.

The Uniontown Tire Recycling facility, where the tire shredder is located, is a registered source with IDEM's Office of Land Quality.

On April 28, 2003 and May 13, 2003, comments were received from residents near the source. The comments were from Carolyn Davis of Norman, Indiana and Rod Chavez of Crothersville, Indiana. The comments and response is below:

### **Comments**

The comments from Carolyn Davis expressed concern over the operation of this source and requested that they not be allowed to operate in Jackson County.

Comments from Mr. Chavez stated that "As a nearby resident living approximately one-half mile north of the present operation and witness to the disregard of agreements made between Rumpke of Indiana and Jackson County, I have my doubts that the current agreements between the department that you represent, and Rumpke of Indiana are being honored, and the operations must cease and cleanup of the shredded carcasses should begin as soon as possible.

Restrictions on the operation seem to have little or no effect on the Quality of Life for the nearby residents impacted by the policies and disregard of *Public Wellbeing* displayed by Rumpke of Indiana.

I understand that there are also issues concerning the pollution of the aquifer from the previously operated land fill owned by Rumpke of Indiana on which the current tire shredding operation is located. In order to highlight the disrespect which Rumpke of Indiana displays to the concept of Public Wellbeing, I would like to offer this one example: I live approximately one-half mile to the north of the current tire shredding operation/landfill. To my knowledge, my well water has never been tested and the results revealed to me. Through my own investigation I have discovered that there are lawsuits pending concerning pollution of the aquifer from which I draw my well water.

Why have I not been informed of the possible hazards that my family and neighbors may be exposed to? Why would anyone want to compound those current possible health issues with even more? With those thoughts in mind, I would like to request a public hearing concerning the proposed permit."

### **Response**

The Uniontown Landfill has had high concentrations of volatile organic compounds (VOC) in the groundwater for about ten years. However, the contamination is not going off-site. There has not been any indication that any locations north of the landfill are being affected. Therefore, any wells north of the landfill have not been considered for testing.

There are some lawsuits related to the landfill. However, these are lawsuits that Rumpke has filed against other companies concerning the waste that these companies sent to the landfill. The OAQ is not aware of any lawsuits related to the pollution of the aquifer.

No issues related to the air pollution control requirements of state law have been raised. Because those laws are the only authority for the content of the air permit, the OAQ has determined that a public hearing is not warranted at this time. For any other concerns related to this landfill, one of the following persons could be contacted: Paul Ramsey of the Jackson County Health Department at 812-522-6474, Tom Brown of the Office of Land Quality at 317-233-6540, Vaughn Ison, Inspector for the Office of Air Quality at 317-233-0432, or Donald Poole of the Office of Air Quality at 317-232-8327.

On May 8, 2003, John Hattersley, of Rumpke of Indiana, LLC, submitted comments on the proposed permit. A summary of the comment and response is below:

### **Comments #1 and #2**

Section C.3(a) Opacity [326 IAC 5-1]: Rumpke will operate this portable source in all areas in Indiana except Lake County. Therefore, Rumpke respectfully requests this section be changed to: "Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4."

Section C.15(a) Portable Source Requirement - Relocation of Portable Sources [326 IAC 2-14-4]: Rumpke respectfully requests this portable source to be approved for operation in all areas of Indiana except Lake County.

### **Responses #1 and #2**

Since the source will not operate in Lake County, the 20% opacity limit pursuant to 326 IAC 5-1-2(2)(B) will not apply. Therefore, condition C.3 is revised as follows:

#### **C.3 Opacity [326 IAC 5-1]**

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Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of ~~twenty~~ **thirty** percent (~~20%~~ **30%**) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

Additionally, condition C.15(a) is revised as follows:

#### **C.15 Relocation of Portable Sources [326 IAC 2-14-4]**

---

- (a) This permit is approved for operation in all areas in Indiana, **except in Lake County**.

### **Comments #3 and #4**

Technical Support Document Page 3: Portable Source (b) PSD and Emission Offset Requirements; Page 4: Source Status (a); Page 5: State Rule Applicability - Entire Source 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset); and Page 6: State Rule Applicability - Individual Facilities 326 IAC 6-1 (Nonattainment Area Limitations): Similar to the comments provided above for the draft permit section C.15(a), Rumpke respectfully requests the notes of these sections to be revised to reflect the approved locations of this portable source (i.e., all areas except Lake County).

Technical Support Document Page 5: 326 IAC 5-1 (Visible Emissions Limitations) (a): Similar to the comments provided above for the draft permit section C.3(a), Rumpke respectfully requests this section and its notes be appropriately changed to reflect the opacity limit of 30% and that the source will not operate in Lake County.

### **Responses #3 and #4**

The OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Although this source will not operate in Lake County, it can still operate in other nonattainment areas. Therefore, the applicability threshold for 326 IAC 2-3 (Emission Offset) remains at 100 tons per year for PM-10, SO<sub>2</sub>, NO<sub>x</sub>, and CO and 25 tons per year for VOC.

### **Comment #5**

Typographical errors:

Page 2, Table of Contents C.2 Permit Revocation, the citation should be [326 IAC 2-1.1-9] not [326 IAC 2-1-9];

Page 10, C.10, the third bullet should be (c) not (a);

Page 12, C.15(d), the sentence is missing the word "of" - "one of the following";

Appendix A, Emission Calculations, Page 2 Tire Shredding, the note regarding the HAPs emission calculations was cut off.

### **Response #5**

Several revisions were made to the Table of Contents in order to be complete, clear, and correct. They are as follows:

- B.8 Annual Notification **[326 IAC 2-6.1-5(a)(5)]**
- B.9 Preventive Maintenance Plan **[326 IAC 1-6-3]**
- B.10 Permit Revision **[326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**
- B.11 Inspection and Entry **[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC13-30-3-1]**
- B.12 Transfer of Ownership or Operation **[326 IAC 2-6.1-6(d)(3)]**
- C.1 Particulate Emission Limitation **For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]**
- C.2 Permit Revocation [326 IAC 2-1.1-9]
- C.9 Monitoring Methods [326 IAC 3][**40 CFR 60**][**40 CFR 63**]
- C.12 ~~Annual~~ Emission Statement [326 IAC 2-6]

In order to clarify which documents need to be certified by an authorized individual, and to correct the typographical error, condition C.10 is revised as follows:

#### **C.10 Actions Related to Noncompliance Demonstrated by a Stack Test**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected emissions unit while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

~~(a)~~(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The **response action** documents submitted pursuant to this condition do not require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1.

Condition C.15(d) is revised as follows:

- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one **of** the following:
- (1) Madison County - (Anderson Office of Air Management)
  - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
  - (3) City of Gary - (Gary Department of Environmental Affairs)
  - (4) City of Hammond - (Hammond Department of Environmental Management)
  - (5) Marion County - (Indianapolis Office of Environmental Services)
  - (6) St. Joseph County - (St. Joseph County Health Department)
  - (7) Vigo County - (Vigo County Air Pollution Control)

The note regarding the emission factors used for PM, PM10 and HAPs from the tire shredder on page 2 of Appendix A has been adjusted so that it is not omitted from the printed version of the spreadsheet.

#### **Comment #6**

According to the instructions to the General Source Data Form (GSD-01), Rumpke has submitted the complete permit application packet to the Jackson County Public Library, Crothersville Branch, which is the nearest library to the source within Jackson County. However, IDEM has sent the draft permit to the Brownstown Public Library. Based upon your conversation with our consultant, Optim Environmental Resources, Inc., it is Rumpke's understanding that IDEM will send copies of both the draft permit and permit application to both libraries so that they have a complete package for public review.

#### **Response #6**

Since Rumpke of Indiana, LLC submitted the application to the closest local library to the source, as required, the OAQ subsequently sent copies of the permit application and the draft permit to both the Jackson County Public Library, Crothersville Branch, and the Brownstown Public Library for the public to review.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted).

1. Condition B.9 (b) was revised to clarify that required record keeping needs to be implemented as well as the rest of the plan to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit. Also, paragraph (c) has been revised to clarify that OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The requirement to keep records of preventive maintenance in paragraph (d) has been moved to Section D when applicable. Because the general record keeping requirements (i.e. retained for 5 years) are in Section C, it is not necessary to include them in this condition or in Section D. At some sources, an OMM Plan is required. Instead of having two separate plans, the OMM Plan may satisfy the PMP requirements, so a new paragraph (d) has been added to this condition.

**B.9 Preventive Maintenance Plan [326 IAC 1-6-3]**

---

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each emissions unit:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs, **including any required record keeping**, as necessary to ensure that failure to implement a PMP does not cause or contribute to ~~a violation~~ **an exceedance** of any limitation on emissions or potential to emit.
- (c) A copy of the PMP's shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMP whenever lack of proper maintenance causes or ~~contributes to any violation~~ **is the primary contributor to an exceedance of any limitation on emissions or potential to emit**. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

~~(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.~~

**(d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.**

2. In order to clarify that an amendment or modification will not be required for the addition, operation or removal of a nonroad engine, paragraph (d) has been added to condition B.10, Permit Revision.

**B.10 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]**

(a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.**

3. For clarity, additional rule cites have been added to condition B.11, Inspection and Entry.

**B.11 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2]  
[IC 13-30-3-1]**

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

**(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;**

**(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;**

- (d) **As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample** Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
  - (e) **As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize** Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
- 4. Paragraph (a) has been removed and the following change in paragraph (b) has been made to condition C.1, Particulate Emission Limitations for Processes with Process Weight Rates Less Than One Hundred (100) Pounds Per Hour:
  - C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour ~~[40 CFR 52 Subpart P]~~**[326 IAC 6-3-2]**

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    - (a) ~~Pursuant to 40 CFR 52 Subpart P, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~
    - (b) Pursuant to 326 IAC 6-3-2(e)(2), ~~the allowable~~ particulate emissions rate from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.
- 5. It is acceptable for records to be electronically accessible instead of being physically present at a source; therefore, the following update has been made:
  - C.13 General Record Keeping Requirements **[326 IAC 2-6.1-5]**

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    - (a) Records of all required **monitoring** data, reports and support information **required by this permit** shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be ~~kept~~ **physically present or electronically accessible** at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
    - (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

## **Indiana Department of Environmental Management Office of Air Quality**

### **Technical Support Document (TSD) for a New Source Construction and Minor Source Operating Permit**

#### **Source Background and Description**

<b>Source Name:</b>	<b>Rumpke of Indiana, LLC</b>
<b>Initial Source Location:</b>	<b>3512 South US Highway 31, Crothersville, IN 47229 (Uniontown Tire Recycling Facility)</b>
<b>Initial County:</b>	<b>Jackson</b>
<b>SIC Code:</b>	<b>4212</b>
<b>Operation Permit No.:</b>	<b>071-16792-05226</b>
<b>Permit Reviewer:</b>	<b>Trish Earls/EVP</b>

The Office of Air Quality (OAQ) has reviewed an application from Rumpke of Indiana, LLC relating to the construction and operation of a portable tire shredder and its supporting diesel internal combustion engine.

#### **Permitted Emission Units and Pollution Control Equipment**

There are no permitted facilities operating at this source during this review process.

#### **Unpermitted Emission Units and Pollution Control Equipment**

The source consists of the following unpermitted facilities/units:

- (a) one (1) diesel-fired internal combustion engine, with a maximum heat input capacity of 385 horsepower (HP), exhausting through one (1) stack (IC Engine Stack).

#### **New Emission Units and Pollution Control Equipment**

The application includes information relating to the construction and operation of the following equipment:

- (a) one (1) portable tire shredder, with a maximum capacity of shredding 12 tons of rubber tires per hour, exhausting to the atmosphere.

Note: Based on the potential emissions for the tire shredder, this unit is an exempt emission unit and is not subject to permitting requirements.

#### **Enforcement Issue**

- (a) IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled *Unpermitted Emission Units and Pollution Control Equipment*.

- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

### Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
IC Engine Stack	IC Engine	13.5	0.5	3,066	1,004

### Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on February 10, 2003.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations (4 pages).

### Potential To Emit of Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential To Emit (tons/year)
PM	3.81
PM-10	3.81
SO <sub>2</sub>	3.46
VOC	4.24
CO	11.26
NO <sub>x</sub>	52.28

HAP's	Potential To Emit (tons/year)
All Metal HAPs	less than 10
TOTAL	less than 25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all pollutants are less than 100 tons per year. The potential to emit (as defined in 326 IAC 2-7-1(29)) of NO<sub>x</sub> is greater than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.

- (c) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### County Attainment Status

The source is located in Jackson County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Jackson County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Jackson County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (c) Fugitive Emissions  
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### Portable Source

- (a) Initial Location  
This is a portable source and its initial location is 3512 South US Highway 31, Crothersville, IN 47229.
- (b) PSD and Emission Offset Requirements  
This permit is approved for operation in all areas in Indiana. The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.
- (c) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed sources under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

## Source Status

New Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	3.81
PM10	3.81
SO <sub>2</sub>	3.46
VOC	4.24
CO	11.26
NO <sub>x</sub>	52.28
Single HAP	0.03
Combination HAPs	0.08

- (a) This new source is **not** a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater, no nonattainment pollutant is emitted at a rate of 100 tons per year or greater, VOC emissions are less than 25 tons per year, and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2 and 2-3, and 40 CFR 52.21, the PSD and Emission Offset requirements do not apply.

Note: Since this source is approved for operation in all areas of Indiana, the applicability threshold for 326 IAC 2-3 (Emission Offset) is 100 tons per year for PM-10, SO<sub>2</sub>, NO<sub>x</sub>, and CO and 25 tons per year for VOC.

## Part 70 Permit Determination

### 326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

## Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

## State Rule Applicability - Entire Source

### 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset)

This new source is not a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater, no nonattainment pollutant is emitted at a rate of 100 tons per year or greater, VOC emissions are less than 25 tons per year, and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2 and 2-3, and 40 CFR 52.21, the PSD and Emission Offset requirements do not apply.

Note: Since this source is approved for operation in all areas of Indiana, the applicability threshold for 326 IAC 2-3 (Emission Offset) is 100 tons per year for PM-10, SO<sub>2</sub>, NO<sub>x</sub>, and CO and 25 tons per year for VOC.

### 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of the portable tire shredding operation will emit less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

### 326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it is a portable source and can be located in any of the counties listed in 326 IAC 2-6-1(a). The potential to emit any of the pollutants regulated by this rule is less than 100 tons per year. However, this source still has the potential to emit more than ten (10) tons per year of NO<sub>x</sub>, therefore the source is subject to this rule when located in any of the counties listed in 326 IAC 2-6-1(a). When the source is not located in any of the counties listed in 326 IAC 2-6-1(a), it is not subject to this rule. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

### 326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

Note: Since this source is approved for operation in all areas of Indiana, including Lake County, the source must comply with the most restrictive applicable limits at all times in order to maintain its portable source status.

### 326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data expressed in 326 IAC 6-4-2(1), (2) or (3).

### **State Rule Applicability - Individual Facilities**

#### **326 IAC 6-1 (Nonattainment Area Limitations)**

This source is not subject to this rule because, although the source can be located in any of the counties listed in 326 IAC 6-1-1(a), the source is not specifically listed in sections 8.1 through 18 of this rule and does not have the potential to emit particulate of one hundred (100) tons per year or more or actual particulate emissions of ten (10) tons per year or more.

#### **326 IAC 6-3-2 ( Particulate Emission Limitations for Manufacturing Processes)**

Pursuant to this rule, the particulate from the tire shredder shall not exceed 22.0 pounds per hour based on the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

The potential particulate emissions from this unit are 0.02 pound per hour, therefore, this unit is in compliance with this rule.

#### **326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)**

The 2.7 MMBtu/hr internal combustion engine is not subject to the requirements of this rule because potential SO<sub>2</sub> emissions are less than 25 tons per year.

#### **326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)**

This source is not subject to this rule. This rule applies to any "affected source" which is defined as any stationary source located in Clark or Floyd County that exists on or before the effective date of this rule and that emits or has the potential to emit greater than or equal to one hundred (100) tons per year or more of NO<sub>x</sub> from all facilities at the source. This source does not have the potential to emit greater than 100 tons per year of NO<sub>x</sub>, therefore, it would not be subject to this rule if located in Clark or Floyd County.

### **Conclusion**

The construction and operation of this portable tire shredder and its supporting diesel internal combustion engine shall be subject to the conditions of the attached proposed New Source Construction and Minor Source Operating Permit 071-16792-05226.

## Appendix A: Emission Calculations Summary

**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47225  
**Operating Permit No.:** 071-16792  
**Plt ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

Potential Emissions (tons/year)			
Emissions Generating Activity			
Pollutant	Tire Shredder	Diesel IC Engine	TOTAL
PM*	0.10	3.71	3.81
PM10	0.10	3.71	3.81
SO2	0.00	3.46	3.46
NOx	0.00	52.28	52.28
VOC	0.00	4.24	4.24
CO	0.00	11.26	11.26
total HAPs	0.01	0.07	0.08
worst case single HAP	<0.01	0.03	0.03
Total emissions based on rated capacity at 8,760 hours/year.			

## Appendix A: Emission Calculations

### Tire Shredding

**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47229  
**Operating Permit No.:** 071-16792  
**Plt ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

#### Portable Tire Shredder

The following calculations determine the amount of emissions created by the tire shredding operation based on 8,760 hours of use and AP-42, Section 4.12, Table 4.12-12 for grinding operations associated with rubber manufacturing. The emission factors for tire retread buffing were used because this operation is more representative of tire shredding than belt rubber, carcass rubber, or sidewall/whitewall rubber grinding operations.

Maximum Tire Shredding Rate (tons/hr):	12
PM/PM10 Emission Factor (lb/lb rubber processed):	9.09E-07
Metal HAPs Emission Factor (lb/lb rubber processed):	6.44E-08

<b>Potential PM/PM10 Emissions (tons/yr):</b>	<b>0.10</b>
<b>Potential Metal HAPs Emissions (tons/yr):</b>	<b>0.01</b>

Note: Since this is part of a tire recycling facility that shreds only used tires, and the tires are not heated, the emission factors for VOCs (Method 25A Organics) and organic HAPs were not used. Only the emission factors for PM, PM10, and metallic HAPs were used to calculate emissions.

**Appendix A: Emission Calculations**  
**Internal Combustion Engines - Diesel Fuel**  
**Turbine (>250 and <600 HP)**  
**Reciprocating**

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**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47229  
**Operating Permit No.:** 071-16792  
**Plt ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

**Emissions calculated based on output rating (hp)**

Heat Input Capacity  
Horsepower (hp)

Potential Throughput  
hp-hr/yr

385.0

3372600.0

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	3.71	3.71	3.46	52.28	4.24	11.26

**Methodology**

Potential Throughput (hp-hr/yr) = hp \* 8760 hr/yr

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-1

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton )

\*PM emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

**Appendix A: Emission Calculations**  
**Internal Combustion Engines - Diesel Fuel**  
**Turbine (>250 and <600 HP)**  
**Reciprocating**  
**HAPs Emissions**

**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47229  
**Operating Permit No.:** 071-16792  
**Pit ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

Heat Input Capacity  
MM Btu/hr

2.7

HAPs - Organics

	Benzene	Toluene	Xylenes	Propylene	Formaldehyde	Acetaldehyde
Emission Factor in lb/MMBtu	9.33E-04	4.09E-04	2.85E-04	2.58E-03	1.18E-03	7.67E-04
Potential Emission in tons/yr	1.10E-02	4.84E-03	3.37E-03	3.05E-02	1.40E-02	9.07E-03

**Total HAPs: 7.28E-02**

The six highest organic HAPs emission factors are provided above.  
Additional HAPs emission factors are available in AP-42, Chapter 3.3, Table 3.3-2.

## Appendix A: Emission Calculations Summary

**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47229  
**Operating Permit No.:** 071-16792  
**Plt ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

Potential Emissions (tons/year)			
Emissions Generating Activity			
Pollutant	Tire Shredder	Diesel IC Engine	TOTAL
PM*	0.10	3.71	3.81
PM10	0.10	3.71	3.81
SO2	0.00	3.46	3.46
NOx	0.00	52.28	52.28
VOC	0.00	4.24	4.24
CO	0.00	11.26	11.26
total HAPs	0.01	0.07	0.08
worst case single HAP	<0.01	0.03	0.03
Total emissions based on rated capacity at 8,760 hours/year.			

## Appendix A: Emission Calculations Tire Shredding

**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47229  
**Operating Permit No.:** 071-16792  
**Pit ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

### Portable Tire Shredder

The following calculations determine the amount of emissions created by the tire shredding operation based on 8,760 hours of use and AP-42, Section 4.12, Table 4.12-12 for grinding operations associated with rubber manufacturing. The emission factors for tire retread buffing were used because this operation is more representative of tire shredding than belt rubber, carcass rubber, or sidewall/whitewall rubber grinding operations.

Maximum Tire Shredding Rate (tons/hr):	12
PM/PM10 Emission Factor (lb/lb rubber processed):	9.09E-07
Metal HAPs Emission Factor (lb/lb rubber processed):	6.44E-08

<b>Potential PM/PM10 Emissions (tons/yr):</b>	<b>0.10</b>
<b>Potential Metal HAPs Emissions (tons/yr):</b>	<b>0.01</b>

and metallic HAPs were used to calculate emissions.

**Appendix A: Emission Calculations**  
**Internal Combustion Engines - Diesel Fuel**  
**Turbine (>250 and <600 HP)**  
**Reciprocating**

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**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47229  
**Operating Permit No.:** 071-16792  
**Plt ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

**Emissions calculated based on output rating (hp)**

Heat Input Capacity  
Horsepower (hp)

Potential Throughput  
hp-hr/yr

385.0

3372600.0

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	3.71	3.71	3.46	52.28	4.24	11.26

**Methodology**

Potential Throughput (hp-hr/yr) = hp \* 8760 hr/yr

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-1

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton )

\*PM emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

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**Appendix A: Emission Calculations**  
**Internal Combustion Engines - Diesel Fuel**  
**Turbine (>250 and <600 HP)**  
**Reciprocating**  
**HAPs Emissions**

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**Company Name:** Rumpke of Indiana, LLC  
**Initial Address City IN Zip:** 3512 S. US Highway 31, Crothersville, Indiana 47229  
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**Plt ID:** 071-05226  
**Reviewer:** Trish Earls  
**Date:** February 10, 2003

Heat Input Capacity  
MM Btu/hr

2.7

HAPs - Organics

	Benzene	Toluene	Xylenes	Propylene	Formaldehyde	Acetaldehyde
Emission Factor in lb/MMBtu	9.33E-04	4.09E-04	2.85E-04	2.58E-03	1.18E-03	7.67E-04
Potential Emission in tons/yr	1.10E-02	4.84E-03	3.37E-03	3.05E-02	1.40E-02	9.07E-03

**Total HAPs: 7.28E-02**

The six highest organic HAPs emission factors are provided above.  
Additional HAPs emission factors are available in AP-42, Chapter 3.3, Table 3.3-2.